

### **ABSTRACT OF THE DISCLOSURE**

A method, system and module for automatically converting a call flow into a state-based representation are disclosed. The method comprises walking a call flow and converting each page of the call flow into a rule of a higher level representation of the call flow, augmenting the higher level representation with terminal symbols representing state variable assignments and comparisons associated with decision and computation shapes in the call flow and converting the higher level representation into a state-based representation.